

A LIST OF THE INSECT ECTOPARASITES RECORDED FROM AUSTRALIAN  
BIRDS AND MAMMALS.

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Although several lists of Australian ectoparasites have appeared from time to time, notably those of Cleland (1922), and of Johnston and Harrison (1913, 1913*a*, 1913*b*), these have dealt either with forms from a particular host-group, or with a particular group of ectoparasites. It is felt, therefore, that it would be of advantage to have a single reference list to all the insect ectoparasites. In every instance the original description has been consulted. No Cimicidae, Polycetenidae or Arixeniidae\* have as yet been recorded from Australian hosts.

The list is in two sections. In the first, Section A, the parasites are considered in detail, while in the second, Section B, the ectoparasites are merely listed under their hosts. The fauna lists used in the compilation of these records are those of Mathews (1927, 1930) and of Iredale and Troughton (1934), and an attempt has been made in both sections to refer the host-name given in the record to these authors' findings on host synonymy, while they provided final judgment if question arose as to the occurrence in the Australian fauna of some host considered in previous lists. A host-group abbreviation is given after each corrected host-name (omitted in Section A for Nycteribiidae and Streblidae, since all are parasites on Chiroptera). These corrected host-names appear after the references to each parasite species and, where lacking, the host data given have been indeterminable or wanting. In Section B only the corrected host-name is given, such indeterminable records being omitted.

Though a uniform method of treatment has been aimed at in Section A, it has been found that each parasite group has, to some extent, presented special problems in listing; thus the greater number of the Mallophaga have been described from skins in museums, and so locality records are omitted in this group for the most part. In listing we have considered only those records which seem of interest from the point of view of the systematics and host-distribution of the parasite in question, and so references to lists, general works and monographs, together with a number of less important papers, have been omitted, unless they throw additional light on these questions; the more important of such publications are listed in the bibliography. Where a parasite has a distribution outside Australia, such extralimital records are not listed unless essential to the systematics, and when given reference to, host and locality are frequently omitted. When a reference includes extralimital records (either of host or of locality), or when records are repeated, they are omitted from the listing; i.e., the reference is quoted only in part. We would emphasize particularly that references to obvious straggling have been omitted. Straggling, of course, can only be said to occur

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\* These insects are in all probability not true parasites.

when close host-parasite specificity obtains, as in the Mallophaga and Siphunculata. Such records serve no useful purpose and no argument can be advanced in favour of their perpetuation, for they serve only to obscure and to confuse the ectoparasite record, especially in its application to phylogenetic studies and to medical and veterinary problems.

It is to be noted that all parasite records from domesticated and introduced animals are omitted whether the parasite has been introduced with its host or has been derived from some native host, as are records of introduced parasites upon native animals. Thus Rothschild (1916) records *Otenocephalides felis* (Bouché) from *Aepyprymnus rufescens* Gray, while Jordan and Rothschild (1922) record *Pygiopsylla rainbowi* (Rothschild) from *Rattus rattus* L. Johnston and Harrison (1913, 1913*a*, 1913*b*) have listed many of the Mallophaga and Siphunculata recorded from domesticated and introduced animals in Australia. Such forms as the sparrow and starling, the "brown" and "black" rats, and the house mouse are considered as introduced.

The Diptera are listed under the families Hippoboscidae, Nycteribiidae and Streblidae. The Hippoboscidae of the region are in a very confused state systematically, and we are greatly indebted to Dr. J. Bequaert for his kind help in the compilation of the list. These parasites are recorded for the most part without any host data, and frequently where such data are given accurately the identity of the parasite is doubtful. The Hippoboscidae records are not considered in Section B.

In considering the parasites of sea-birds and of northern migratory birds, their inclusion in or omission from the list has been difficult to decide upon. Either all these records are to be included, as logically they should, or only those instances where the record is definitely from an Australian locality. The latter alternative has been taken.

Records to the following groups we omit from the listing as being too incomplete or doubtful: Froggatt (1913, *Agric. Gaz. N.S.W.*, xxiv, pp. 567-568, f. 1-5) described the larva of a bot-fly (Oestridae) attacking kangaroos. Muscoid Diptera have been recorded as parasitizing several species of birds (see Gilbert, 1919, *Emu*, xix, pp. 48-49). Bergroth (1914, *Trans. Roy. Soc. S. Aust.*, xxxviii, pp. 53-57) has described the Lygaeid bug, *Clerada nidicola*, which is recorded as possibly inquiline in the nest of *Trichosurus vulpecula* Kerr. Members of the genus *Macropocopriss* (Coleoptera, Scarabaeidae) are associated with kangaroos and wallabies (see Arrow, 1920, *Ann. Mag. Nat. Hist.* (9), vi, pp. 434-437).

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#### Section A.

The letters between brackets following the corrected host name refer to host-groups, as follows: MONOTREMATA, O; MARSUPIALIA, D; Polyprotodontia, DP; Diprotodontia, DD; PLACENTALIA, M; Rodentia, MR; Carnivora, MCR; Pinnipedia, MP; Chiroptera, MC; AVES, A; Casuariiformes, ACA; Spheniseiformes, AS; Galliformes, AG; Columbiformes, ACO; Ralliformes, AR; Procelleriiformes, APR; Lariformes, AL; Charadriiformes, ACH; Megalornithiformes, AMG; Ardeiformes, AAR; Anatiformes, AAN; Pelecaniformes, APE; Falconiformes, AF; Psittaciformes, APS; Alcediniformes, AAL; Cuculiformes, ACU; Menuriformes, AMN; Passeriformes, APA.

*Note.*—Such host-group abbreviations are omitted in the Nycteribiidae; all are parasites of Chiroptera.

## DIPTERA.—HIPPOBOSCIDAE.

Owing to the confusion which exists in the systematics of this group, and the fact that few of the records can be taken as correct, we are listing below the species which have been recorded from Australia, together with a number of species from New Guinea and New Zealand which Dr. Bequaert considers will also be found.

1. FERONIA MACLEAYI Leach, 1818\*, p. 558 (Australia). This may be an *Ornithomyia*.
2. HIPPOBOSCA AUSTRALASIAE Fabricius, 1805, p. 337, has been reported by Leach, 1818, p. 558, Pl. xxv, f. 6-8, as *Ornithomyia australasiae* from Australia, though it is doubtful if it is Fabricius' species. Tillyard (1926, p. 377, fig. W.73) records *O. australasiae* Leach from the Laughing Jackass and the Goshawk, while Cleland (1922, p. 113) doubtfully refers to this species a specimen from South Australia off *Petrochelidon ariel* (= *Lagenoplastes ariel* (Gould)). Speiser (1902, p. 329) placed *O. australasiae* F. in *Ornithoctona*.
3. LYNCHIA ACROMIALIS (Speiser), 1904, p. 386 (New Guinea).
4. LYNCHIA CHALCOLAMPRA (Speiser), 1904a, p. 335 (New Guinea).
5. LYNCHIA DIOXYRHINA (Speiser), 1904, pp. 387-388 (New Guinea).
6. LYNCHIA NIGRA (Perty), 1833, Delectus Animalium Articulatorum Brasiliam, iii, p. 190, Pl. xxxvii, f. 15 (Brazil). ? *Olfersia intertropica* Bau, 1929, p. 10 (N. Queensland).
7. LYNCHIA SETOSA Ferris, 1927, pp. 224-228, f. 14, 15 (Philippine Is.). Dr. Bequaert has seen this species from Queensland.
8. LYNCHIA PAPUANA (Rondani), 1878, pp. 162-163 (New Guinea).
9. LYNCHIA PARALLELIFRONS Speiser, 1902, pp. 336-337 (New Guinea).
10. LYNCHIA PLANA (Walker), 1861, p. 254 (New Guinea).
11. ? OLFERZIA SPINIFERA (Leach), 1818, p. 557, Pl. xxvi, f. 1-3. Austen (1903, p. 266) records this species from Adele Is., N.W. Australia, off *Fregata aquila* L. (= *Fregata minor* (Lesson)), but Dr. Bequaert is of the opinion that it is not true "*spinifera*".
12. ORNITHEZA METALLICA (Schiner), 1864, p. 646.—Synonym, *Ornithomyia andajensis* Rondani, 1878, pp. 155-156 (New Guinea). Dr. Bequaert has seen specimens from Queensland representing this species.
13. ORNITHOCTONA PLICATA (Olfers), 1816, De Vegetationis et Animatis corporibus in corporibus animatis reperiundis commentarius, Diss., Berlin, p. 102. Dr. Bequaert has seen specimens from Queensland.—Synonyms: *Ornithomyia batchianica* Walker, 1861, p. 300 (Batchian). ? this is *Ornithomyia batchiana* Bell. which Rondani (1878, p. 158) has recorded from N. S. Wales.—*Ornithomyia doreica* Walker, 1861, p. 254 (New Guinea).—*Ornithomyia hatamensis* Rondani, 1878, p. 158 (New Guinea).—*Ornithomyia nigricans* Leach, 1818, pp. 558-559, Pl. xxvii, f. 7-10. Recorded by Froggatt (1907, p. 321) from "white hawk", S. Queensland.—*Ornithomyia australis* Guérin, 1831, p. 302, Pl. xxi, f. 12 (Port Jackson, N. S. Wales).

\* Where author and year are quoted, the journal referred to is listed in the list of references on page 126.



14. ORNITHOCTONA ? VIRIDIPES (Walker), 1858, p. 235 (N.S. Wales). A doubtful species.
15. ORNITHOICA PUSILLA Schiner, 1868, p. 374. Dr. Bequaert has seen specimens from Queensland and N. S. Wales.
16. ORNITHOICA STIPITURI Schiner, 1868, p. 374 (*Stipiturus malachurus* (Shaw), N. S. Wales).
17. ? ORNITHOMYIA AVICULARIA (Linné), 1761, Fauna Suec., p. 1922. Austen (1903, p. 262) states that *Olfersia macleayi* (Walker) (1849, p. 1141) from ? New Holland is *Ornithomyia avicularia* (Linné). Austen (1906, p. 65) records "*avicularia*" from N. S. Wales and Tasmania; he also claims that in Tasmania it occurs on wallabies. Dr. Bequaert says he cannot believe that wallabies are ever the host.
18. ORNITHOMYIA NIGRICORNIS Erichson, 1842, p. 274 (Tasmania).—Gerstaecker (1856, p. 260) claims that this is *Ornithomyia tasmanensis* Macquart (1851), while Speiser (1904b, p. 87) says that it is *Ornithomyia avicularia* (Linné).
19. ORNITHOMYIA OPPOSITA Walker, 1849, p. 1145 (New Zealand).
20. ORNITHOMYIA PERFUGA Speiser, 1902, pp. 331–332 (New Guinea).—Froggatt (1907, p. 321) records this species from S. Queensland off an owl (? = *Spiloglaux novaeseelandiae* (Latham)). This is "*Olfersia macleayi*" of Froggatt (1900, pp. 1090–1091, f. 3, 4 (mislabelled "*Hippobosca equina*")), which he records from wallabies, including *Halmaturus ruficollis* (= *Wallabia rufogrisea* Desmarest) and *H. perryi* (= *Wallabia elegans* Lambert). (See Austen, 1903, p. 260). Dr. Bequaert does not believe that *Ornithomyia* occurs on such hosts.
21. ORNITHOMYIA TASMANENSIS Macquart, 1851, p. 309, Pl. xxviii, f. 15 (Tasmania).
22. ORNITHOMYIA VARIEGATA Bigot, 1885, p. 245 (New Zealand).
23. ORNITHOPHILA SIMPLEX (Walker), 1861, p. 263 (Celebes). Austen (1903, p. 263) records this species from Queensland off *Tallegalla lathami* (= *Alectura lathami* Gray).
24. ORTHOLFERSIA PHANERONEURA Speiser, 1902a, pp. 153–154 (N. S. Wales).
25. ORTHOLFERSIA RAVENI Ferris, 1924, pp. 4–5, f. 3–4 (*Macropus* sp., N. S. Wales).
26. ORTHOLFERSIA TASMANICA (Wesché), 1903, p. 385, f. 1–4 (Tasmania).—*O. tasmanica* (Wesché), Austen, 1903, p. 260 (*Macropus ruficollis* (= *Wallabia rufogrisea* Desmarest), Tasmania).—*O. tasmanica* (Wesché), Ferris, 1924, pp. 2–4, f. 1, 2 (*Macropus stigmaticus* (= *Thylogale stigmatica* Gould), N. Queensland).

## DIPTERA.—NYCTERIBIIDAE.

CYCLOPODIA ALBERTSI Rondani, 1878, pp. 150–151 (Goram); Speiser, 1901, pp. 50, 64, 71, 73.—*Nycteribia pteropus* Rainbow, 1904, pp. 78–79, Pl. ix, f. 1–14 (Gulf of Carpentaria: *Pteropus gouldi* Peters).—*C. pteropus* (Rainbow), Ferris, 1924, pp. 5–6, f. 5 (Queensland: *Pteropus conspicillatus*).—*C. (C.) pteropus* (Rainbow), Musgrave, 1925, p. 300 (N. S. Wales: *Pteropus poliocephalus* Temm.; N. Barnard Is.: *P. conspicillatus*; Queensland: unknown host).—*C. albertsi* Rondani, Scott, 1932, p. 25 (Queensland: *Pteropus gouldi*, *Pteropus* sp.).

Hosts: *Pteropus conspicillatus* Gould, *P. gouldii* Peters, *P. poliocephalus* Temminck.



NYCTERIBIA (NYCTERIBIA) BREVICAUDA Musgrave.—*N. brevicauda* Musgrave, 1925, pp. 295–298, Pl. xlv, f. 1–4 (N. S. Wales: *Nyctophilus gouldi* Tomes).

Host: *Nyctophilus timoriensis* Gould Tomes.

NYCTERIBIA (NYCTERIBIA) BURRELLI Musgrave.—*N. burrelli* Musgrave, 1927, pp. 272–274, Pl. xxiii, f. 4, 5, 9, 12 (N. S. Wales: *Chalinolobus morio* Gray).

Host: *Chalinolobus morio* Gray.

NYCTERIBIA (NYCTERIBIA) FALCOZI Musgrave.—? *N. (Acrocholidia) oceanica* Speiser (nec Bigot), 1901, p. 41 (N. S. Wales: *Chalinolobus gouldi* Gray); 1902a, p. 173.—*N. (N.) falcozi* Musgrave, 1925, pp. 292–295, Pl. xlv, Pl. xlv, f. 5–7 (S. Australia: *Chalinolobus gouldi* Gray).—*N. falcozi* Musgrave, 1927, p. 265 (N.S. Wales: 'Bat'; Queensland: 'Bat'; Tasmania: *Eptesicus pumilis* Gray).

Hosts: *Chalinolobus gouldii* Gray, *Vespadelus pumilus vulturinus* Thomas.

NYCTERIBIA (NYCTERIBIA) HALEI Musgrave.—*N. halei* Musgrave, 1927, pp. 271–272, Pl. xxiii, f. 1–3, 6 (S. Australia: *Chalinolobus morio* Gray).

Host: *Chalinolobus morio* Gray.

NYCTERIBIA (NYCTERIBIA) LONGISPINOSA Musgrave.—*N. longispinosa* Musgrave, 1927, pp. 274–276, Pl. xxiii, f. 7, 8, 10, 11 (N. S. Wales: *Scoteinus rüppellii* Peters, *Scotophilus* (?) sp.). Host: *Scoteinus rüppellii* Peters.

NYCTERIBIA (NYCTERIBIA) MULTISPINOSA Musgrave.—*N. multispinosa* Musgrave, 1927, pp. 268–270, Pl. xxii, f. 5–10 (N. S. Wales: *Scoteinus rüppellii* Peters).

Host: *Scoteinus rüppellii* Peters.

NYCTERIBIA (NYCTERIBIA) TROUGHTONI Musgrave.—*N. trougtoni* Musgrave, 1927, pp. 265–268, Pl. xxii, f. 1–4 (N. S. Wales: *Chalinolobus gouldi* Gray; S. Australia: undetermined bat). Host: *Chalinolobus gouldi* Gray.

NYCTERIBIA (LISTROPODA) PARILIS Walker.—*N. parilis* Walker, 1861, p. 300; Speiser, 1901, p. 52.—*N. (Listropodia) parilis* Walker, Scott, 1914, pp. 231–234, Pl. xii, f. 20–23 (*Miniopterus australis*); *N. (Listropodia) parilis* Walker, Musgrave, 1925, pp. 298–299; Musgrave, 1927, p. 276 (N. S. Wales: *Miniopterus schreibersi* Natterer).

Hosts: *Miniopterus australis* Tomes, *Miniopterus blepotis* Temminck.

NYCTERIBIA (LISTROPODA) SARASINI Falcoz.—*N. (Listropodia) sarasini* Falcoz, 1923, pp. 89–93, f. 9–12 (Queensland: *Miniopterus australis* Tomes); *N. (Listropodia) sarasini* Falcoz, Musgrave, 1925, p. 299; Musgrave, 1927, p. 276 (Queensland: *Miniopterus schreibersi*).

Hosts: *Miniopterus australis* Tomes, *Miniopterus blepotis* Temminck.

PENICILLIDIA OCEANICA (Bigot).—*Nycteribia oceanica* Bigot, 1885, p. 246 (New Caledonia: host unknown).—*Penicillidia oceanica* (Bigot), Falcoz, 1923, pp. 86–89, f. 5–8 (New Caledonia: *Miniopterus australis* Tomes); Scott, 1932, p. 21 (Queensland: *Miniopterus schreibersi* (? *M. australis*, fide Scott), unknown host).

#### DIPTERA.—STREBLIDAE.

ASCOPIPTERON AUSTRALIANSI Muir, 1912, p. 366, Pl. ii, f. 17a, b (N. Queensland: *Miniopterus schreibersi*). Host: *Miniopterus blepotis* Temminck (MC).

NYCTERIBOSCA AMBOINENSIS (Rondani).—*Brachytarsina amboinensis* Rondani, 1878, pp. 166–167 (Amboina: unknown host).—*N. amboinensis* (Rondani), Kessel, 1925, p. 24 (Queensland: *Miniopterus schreibersi*).

Host: *Miniopterus blepotis* Temminck (MC).

#### MALLOPHAGA.—BOOPIIDAE.

BOOPIA BETTONGIA Le Souëf, 1902, p. 50, f. 2 (*Bettongia rufescens*).

Host: *Aepyprymnus rufescens* Gray (DD).

- BOOPIA GRANDIS Piaget, 1885, pp. 154-155, Pl. xvi, f. 8 (Rotterdam Zoo: *Macropus rufus*). Host: *Megalicia rufa* Desmarest (DD).
- BOOPIA MINUTA Le Souëf, 1902, p. 51, f. 3 (*Macropus dorsalis*).  
Host: *Wallabia dorsalis* Gray (DD).
- BOOPIA NOTAFUSCA Le Souëf, 1902, p. 50, f. 1 (*Macropus ualabatus*); Harrison and Johnston, 1916, pp. 347-348, f. 5, 6 (Victoria: *Macropus ualabatus*, *Macropus giganteus*).  
Hosts: *Macropus major* Shaw (DD), *Wallabia bicolor* Desmarest (DD).
- BOOPIA PILANEROCERATA Harrison and Johnston, 1916, pp. 348-349, f. 7 (N. S. Wales: *Perameles nasuta*). Host: *Perameles nasuta* Geoffroy (DP).
- BOOPIA SPINOSA Harrison and Johnston, 1916, pp. 350-352, f. 9 (Victoria: *Macropus ualabatus*). Host: *Wallabia bicolor* Desmarest (DD).
- BOOPIA TARSATA Piaget, 1880, pp. 599-600, Pl. I, f. 1 (plate labelled "Boopia longitarsata") (*Phascalomys fossor*): Cummings, 1916, pp. 269-271, f. 9 (*Phascalomys mitchelli* Owen).  
Hosts: *Vombatus ursinus* Shaw (DD), *Vombatus hirsutus* Perry (DD).
- BOOPIA UNCINATA Harrison and Johnston, 1916, pp. 349-350, f. 8 (N. S. Wales: *Dasyurus maculatus*). Host: *Dasyurops maculatus* Kerr (DP).
- DENDROLAGIA HYGIDIALIS Mjöberg, 1919, p. 94 (Queensland: *Dendrolagus lumholtzi* Coll.). Host: *Dendrolagus lumholtzi* Collett (DD).
- HETERODOXUS LONGITARSUS (Piaget). \*—*Menopon longitarsus* Piaget, 1880, pp. 504-506, Pl. xli, f. 7 (Rotterdam Zoo: *Halmaturus giganteus*).—*Heterodoxus macropus* Le Souëf and Bullen, 1902, p. 159, f. 11 ('Kangaroos and Wallabies').—*H. longitarsus* (Piaget) Harrison and Johnston, 1916, pp. 353-354, f. 4, 10, 11 (N. S. Wales: *Macropus thetidis*, *M. dorsalis*, *M. rufus*, *M. giganteus*, *M. wilcoxi*, *M. robustus*; Queensland: *M. thetidis*, *M. giganteus*, *M. stigmaticus*; Victoria: *M. ualabatus*, *M. bennetti* (Zoo); Flinders Is.: *M. ruficollis*).  
Hosts: *Macropus major* Shaw (DD), *Megalicia rufa* Desmarest (DD), *Osphranter robustus* Gould (DD), *Thylogale stigmatica stigmatica* Gould (DD), *Thylogale stigmatica wilcoxi* McCoy (DD), *Thylogale thetis* Lesson (DD), *Wallabia bicolor* Desmarest (DD), *Wallabia dorsalis* Gray (DD), *Wallabia rufogrisea* Desmarest (DD).
- LATUMCEPHALUM LESOUËFI Harrison and Johnston, 1916, pp. 343-344, f. 2D, 3B (Victoria: *Macropus ualabatus*). Host: *Wallabia bicolor* Desmarest (DD).
- LATUMCEPHALUM MACROPUS Le Souëf, 1902, p. 51, f. 4, 4a ('Wallabies'); Harrison and Johnston, 1916, pp. 340-343, f. 2A, 2B, 2C, 3A (Melbourne Zoo: *Macropus dorsalis*). Host: *Wallabia dorsalis* Gray (DD).
- MACROPHILA FORCIPATA Mjöberg, 1919, p. 95 (*Macropus coxeni* Gray).  
Host: *Thylogale coxeni* Gray (DD).
- PARAHETERODOXUS INSIGNIS Harrison and Johnston, 1916, pp. 357-359, f. 1, 13, 14 (N. S. Wales, Queensland: *Aepyprymnus rufescens*).  
Host: *Aepyprymnus rufescens* Gray (DD).
- PHACOGALIA BREVISPINOSUS (Harrison and Johnston).—*Heterodoxus brevispinosus* Harrison and Johnston, 1916, pp. 355-356, f. 12 (Sydney Zoo: *Phascologale flavipes*).—*Phacogalia brevispinosus* (Harrison and Johnston), Mjöberg, 1919, pp. 95-96. Host: *Antechinus flavipes* Waterhouse (DP).

\* We have only included here the synonymy referring to Australian host records. The species has also been recorded from dogs in Australia, and from dogs and other animals in various parts of the world.

## MALLOPHAGA.—MENOPONTIDÆ.

- MENOPON ALBESCENS Piaget, 1880, pp. 491-492, Pl. xli, f. 4 (*Sula australis*).  
Host: *Sulita serrator* (Gray) (APE).
- MENOPON BIFURCATUM Piaget, 1880, pp. 423-424, Pl. xxxv, f. 10; Neumann, 1890, pp. 67-68 (*Calyptorhynchus funereus*).  
Host: *Zanda funerea* (Shaw) (APS).
- MENOPON COMMISSUM Neumann, 1890, pp. 66-67 (*Microglossum alecto*).  
Host: *Probosciger aterrimus* (Gmelin) (APS).
- MENOPON MENURA Le Souëf and Bullen, 1902, p. 158, f. 9 (*Menura superba* (Victorian form)).  
Host: *Menura novaehollandiae victoriae* Gould (AMN).
- MENOPON PALLIPES Piaget, 1885, p. 111, Pl. xii, f. 2 (*Excalfactoria australis*).  
Host: *Excalfactoria chinensis australis* Gould (AG).
- MENOPON PTEROPSITTACUS Harrison, 1916, p. 43.—*M. psittacus* Le Souëf and Bullen (nec Gurlt, 1857), 1902, p. 158, f. 8 (*Platycercus eximius*).  
Host: *Platycercus eximius* (Shaw) (APS).
- MENOPON PTILONORHYNCHI Ponton, 1871, p. 8, Pl. xci, f. 1 (*Ptilonorhynchus holosericeus*). Host: *Ptilonorhynchus violaceus* (Vieillot) (APA).
- MENOPON SUBROTUNDUM Piaget, 1880, p. 453, Pl. xxxv, f. 2 (*Graculus sulcirostris*).  
Host: *Mesocarbo ater sulcirostris* Brandt (APE).
- COLPOCEPHALUM ALBIDUM Giebel, 1874, p. 268 (*Phaps chalcoptera*); Piaget, 1880, pp. 533-534, Pl. xlii, f. 5 (*Columba phasianella*).  
Hosts: *Macropygia phasianella* (Temminck) (ACO), *Phaps chalcoptera* (Latham) (ACO).
- COLPOCEPHALUM CASTANEUM Piaget, 1885, pp. 153-154, Pl. xvi, f. 7 (*Cygnus atratus*). Host: *Chenopsis atrata* (Latham) (AAN).
- COLPOCEPHALUM FLAVESCENS Nitzsch in Lyonet, 1829, p. 262, Pl. xii, f. 1; *C. flavescens* var. *major* Piaget, 1885, p. 119-120 (*Haliæetus leucogaster*).  
Host: *Cuncuma leucogaster* (Gmelin) (AF).
- COLPOCEPHALUM PALLIDUM Piaget, 1880, pp. 526-527, Pl. xliii, f. 9; Neumann, 1890, p. 68 (*Cacatua barbeateri* (? = *leadbeateri*)).  
Host: ? *Lophochroa leadbeateri* (Vigors) (APS).
- COLPOCEPHALUM TEMPORALE Piaget, 1890, pp. 252-253, Pl. x, f. 6 (*Psittacus aterrimus*). Host: *Probosciger aterrimus* (Gmelin) (APS).
- COLPOCEPHALUM TRIMACULATUM Piaget, 1880, pp. 525-526, Pl. xliii, f. 8 (*Platycercus barrabandi*, *P. palliceps*).  
Hosts: *Platycercus adscitus palliceps* Lear (APS), *Polytelis swainsonii* (Desmarest) (APS).
- COLPOCEPHALUM VINCULUM Le Souëf and Bullen, 1902, p. 158, f. 10 (*Strepera graculina*). Host: *Strepera graculina* (J. White) (APA).
- ACOLPOCEPHALUM BREVIPES Ewing, 1927, p. 88 (*Ptiloris victoriae*).  
Host: *Ptiloris victoriae* Gould (APA).
- ACTORNITHOPHILUS CRASSIPES (Piaget).—*Colpocephalum crassipes* Piaget, 1880, pp. 566-567, Pl. xlvii, f. 6 (*Sterna poliocerca*).  
Host: *Thalasseus bergii poliocercus* (Gould) (AL).
- EOMENOPON DENTICULATUS Harrison, 1915, pp. 385-388, f. 1, Pl. xxvi, f. 5, 6 (N.S. Wales: *Trichoglossus novae-hollandiae*, *Ptilosclera versicolor*).  
Hosts: *Psittacops versicolor* (Lear) (APS), *Trichoglossus moluccanus* (Gmelin) (APS).



MYRSIDEA PARUMPILOSA (Piaget).—*Menopon parumpilosum* Piaget, 1880, pp. 421-422, Pl. xxxiii, f. 6; Neumann, 1890, p. 68 (*Psephotus haematogaster*).

Host: *Northiella haematogaster* (Gmelin) (APS).

MYRSIDEA PLATYGASTER (Giebel).—*Menopon platygaster* Giebel, 1874, p. 290; Piaget, 1880, pp. 420-421, Pl. xxxiii, f. 5 (*Scythrops n. hollandiae*).

Host: *Scythrops novaehollandiae* (Latham) (ACU).

MACHAERILAEMUS LATIFRONS Harrison, 1915, pp. 390-392, Pl. xxvi, f. 1-4 (*Poephila gouldiae*). Host: *Gouldaeornis gouldiae* (Gould) (APA).

TETROPTHALMUS AUSTRALIS Bedford, 1931, pp. 236-242, f. 1D, 2D, 4D, 5D, 6D (*Catoptropelicanus conspiciatus* Temm.).

Host: *Catoptropelicanus conspiciatus* (Temminck) (APE).

TRINOTON NIGRUM Le Souëf.—*Trinoton nigrum* Le Souëf, 1902, p. 90 (*Chenopis atrata*). Host: *Chenopis atrata* (Latham) (AAN).

ANCISTRONA VAGELLI (Fabricius).—*Pediculus vagelli* Fabricius, 1787, *Mant. Ins.*, p. 369.—*Ancistrona procellariae* Westwood, 1874, *Thesaurus entomologicus oxoniensis*, London, p. 197, Pl. xxxvii, f. 4. (*Daption capense*).—*A. gigas* Piaget, 1883, pp. 152-154, Pl. ix, f. 1.—*A. procellariae* Westwood, Harrison, 1911, pp. 633-634.

Host: *Daption capensis australis* Mathews (APR).

#### TRICHODECTIDAE.

TRICHODECTES CANIS (De Geer).—*Ricinus canis* De Geer, 1778, *Mémoire pour servir à l'histoire des Insectes*, Stockholm, vii, p. 81, Pl. iv, f. 16.—*Trichodectes ? latus*, Steel, 1919, p. 93 (N. S. Wales: *Canis dingo* Blum).—*Trichodectes canis* (De Geer), Bedford, 1932, p. 353 (Port Adelaide: 'Australian Dingo').

Host: *Canis dingo* Meyer (MCR).

#### MALLOPHAGA.—PHILOPTERIDAE.

GONIODES ELONGATUS Piaget, 1880, pp. 281-282, Pl. xxiii, f. 5; Piaget, 1885, pp. 52-53, Pl. v, f. 10 (*Excalfactoria australis*).—*G. longus* Le Souëf, 1902, p. 90 (*Excalfactoria chinensis*).—*G. elongatus* Piaget, Johnston and Harrison, 1913, p. 3 (*Synoecus australis* Temm.).

Hosts: *Excalfactoria chinensis australis* Gould (AG), *Ypsilophorus ypsilophorus australis* (Latham) (AG).

GONIODES RETRACTUS Le Souëf, 1902, p. 90 (*Synoecus australis*).

Host: *Ypsilophorus ypsilophorus australis* (Latham) (AG).

GONIOCOTES FISSUS Rudow, 1869, p. 23 (*Talegallus lathamii*); Taschenberg, 1882, pp. 84-85, Pl. ii, f. 7, 7a. Host: *Alectura lathamii* Gray (AG).

GONIOCOTES FLAVUS (Rudow).—*Goniodes flavus* Rudow, 1870, pp. 486-487 (*Phaps chalcoptera*).—*Goniocotes flavus* Rudow, Taschenberg, 1882, pp. 101-102, Pl. iii, f. 5, 5a. Host: *Phaps chalcoptera* (Latham) (ACO).

GONIOCOTES LATUS var. MAJOR Neumann, 1890, p. 64 (*Microglossum alecto*).

Host: *Probosciger aterrimus* (Gmelin) (APS).

GONIOCOTES MACROCEPHALUS Taschenberg, 1882, pp. 87-89, Pl. ii, f. 11 (*Talegallus lathamii*). Host: *Alectura lathamii* Gray (AG).

LIPEURUS ACUMINATUS Piaget, 1885, p. 70, Pl. vii, f. 6 (*Excalfactoria australis*).—*Oxylpeurus acuminatus* (Piaget), Mjöberg, 1910, p. 92.

Host: *Excalfactoria chinensis australis* Gould (AG).

LIPEURUS CRASSUS Rudow, 1869, pp. 31-32 (*Talegallus lathamii*).

Host: *Alectura lathamii* Gray (AG).

- LIPEURUS ISCHNOCEPHALUS Taschenberg, 1882, pp. 173-174, Pl. vi, f. 8 (*Talegallus lathamii*). Host: *Alectura lathamii* Gray (AG).
- AUSTROGONIODES WATERSTONI (Cummings).—*Goniocotes waterstoni* Cummings, 1914, pp. 173-176, f. 8 (Furneaux Is.: *Eudyptula minor*).  
Host: *Eudyptula minor novaehollandiae* (Stephens) (AS).
- PHILOPTERUS ACUTUS (Rudow).—*Docophorus acutus* Rudow, 1870, p. 463 (*Scythrops novaehollandiae*).  
Host: *Scythrops novaehollandiae* (Latham) (ACU).
- PHILOPTERUS ANGUSTOCLYPEATUS (Piaget).—*Docophorus angustoclypeatus* Piaget, 1880, pp. 34-35, Pl. ii, f. 3 (*Platycercus barrabandi*).  
Host: *Polytelis swainsonii* (Desmarest) (APS).
- PHILOPTERUS BREVIANTENNATUS (Piaget).—*Docophorus brevi antennatus* Piaget, 1880, pp. 108-109, Pl. ix, f. 9 (*Sula australis*).  
Host: *Sulita serrator* (Gray) (APE).
- PHILOPTERUS DELPHAX (Nitzsch in Giebel).—*Docophorus delphax* Nitzsch in Giebel, 1866, p. 360 (*Dacelo giganteus*).  
Host: *Dacelo novaeguineae* (Hermann) (ACL).
- PHILOPTERUS EOS (Rudow).—*Docophorus eos* Rudow, 1869, p. 15 (*Cacatua eos*).  
Host: *Eolophus roseicapillus* (Vieillot) (APS).
- PHILOPTERUS FLAVOPUNCTATUS (Rudow).—*Docophorus flavopunctatus* Rudow, 1870, p. 458 (*Tribonyx ventralis*). Host: *Microtribonyx ventralis* Gould (AR).
- PHILOPTERUS FORFICULA (Piaget).—*Docophorus forficula* Piaget, 1871, pp. 117-119, Pl. vi, f. 3 (*Platycercus barrabandi*, *baueri*, *eximius*, *pennanti*, *scapulatus*); Neumann, 1890, p. 59 (*Microglossus aterrimus*).  
Hosts: *Alisterus scapularis* (Lichtenstein) (APS), *Barnardius zonarius* (Shaw) (APS), *Platycercus elegans elegans* (Gmelin) (APS), *Platycercus eximius* (Shaw) (APS), *Polytelis swainsonii* (Desmarest) (APS), *Probosciger aterrimus* (Gmelin) (APS).
- PHILOPTERUS FORFICULOIDES (Piaget).—*Docophorus forficuloides* Piaget, 1880, pp. 72-74, Pl. v, f. 6; Neumann, 1890, p. 59 (*Microglossum atecto*).  
Host: *Probosciger aterrimus* (Gmelin) (APS).
- PHILOPTERUS GRANDICEPS (Giebel).—*Docophorus grandiceps* Giebel, 1874, p. 85 (*Ptilonorhynchus holosericeus*).  
Host: *Ptilonorhynchus violaceus* (Vieillot) (APA).
- PHILOPTERUS HORRIDUS (Giebel).—*Docophorus horridus* Giebel, 1876, p. 249 (*Ciconia australis*).  
Host: *Xenorhynchus asiaticus australis* (Shaw) (AAR).
- PHILOPTERUS LATICLYPEATUS (Piaget).—*Docophorus laticlypeatus* Piaget, 1871, pp. 116-117, Pl. vi, f. 2 (*Cuculus flabelliformis*).  
Host: *Cacomantis prionurus* (Licht.) (ACU).
- PHILOPTERUS LONGIPES (Rudow).—*Docophorus longipes* Rudow, 1870, p. 425 (*Ardea novaehollandiae*). Host: *Notophox novaehollandiae* (Latham) (AAR).
- PHILOPTERUS NOVAEHOLLANDIAE (Giebel).—*Docophorus novaehollandiae* Giebel, 1874, p. 96 (*Grus novaehollandiae*).  
Host: *Mathewsena rubicunda* (Perry) (AMG).
- PHILOPTERUS OBCORDATUS (Piaget).—*Docophorus obcordatus* Piaget, 1871, pp. 121-123, Pl. vi, f. 6 (*Scythrops n. hollandiae*).  
Host: *Scythrops novaehollandiae* (Latham) (ACU).
- PHILOPTERUS PARABOLICEPS (Piaget).—*Docophorus paraboliceps* Piaget, 1890, pp. 224-225, Pl. viii, f. 2 (*Menura lyra*).  
Host: *Menura novaehollandiae* Latham (AMN).

- IBIDOCUS FLAVUS Cummings, 1916, pp. 665-669, f. 16-19 (Victoria: *Platibis flavipes* (Gould)). Host: *Platibis flavipes* (Gould) (AAR).
- DEGERIELLA BIMACULATA (Piaget).—*Nirmus bimaculatus* Piaget, 1885, pp. 148-149, Pl. xvi, f. 1 (*Barita tibicen*).  
Host: *Gymnorhina tibicen* (Latham) (APA).
- DEGERIELLA BRACTEATA (Nitzsch in Giebel).—*Nirmus bracteatus* Nitzsch in Giebel, 1866, p. 369 (*Dacelo giganteus*).  
Host: *Dacelo novaeguineae* (Hermann) (AAL).
- DEGERIELLA DIVERGENS (Neumann).—*Nirmus divergens* Neumann, 1890, p. 62 (*Pezoporus formosus*). Host: *Pezoporus wallicus* (Kerr) (APS).
- DEGERIELLA EOS (Giebel).—*Nirmus eos* Giebel, 1874, p. 181 (*Cacatua eos*).—*N. tenuis* Rudow, 1870, p. 471 (*Cacatua eos*).  
Host: *Eolophus roseicapillus* (Vieillot) (APS).
- DEGERIELLA HECTICA (Nitzsch in Giebel).—*Nirmus hecticus* Nitzsch in Giebel, 1866, p. 366 (*Sericulus regens*).  
Host: *Sericulus chrysocephalus* (Lewin) (APA).
- DEGERIELLA LIPEURIFORMIS (Rudow).—*Nirmus lipeuriformis* Rudow, 1869, p. 19 (*Scythrops novae-hollandiae*).—*N. chelurus* Nitzsch in Giebel, 1874, p. 150-151.  
Host: *Scythrops novae-hollandiae* (Latham) (ACU).
- DEGERIELLA MENURAE LYRAE (Coinde).—*Nirmus menuraelyrae* Coinde, 1859, pp. 424-425 (*Menure-Lyre*).—*N. submarginellus* Nitzsch in Giebel, 1866, p. 368 (*Maenura superba*).—*N. menura* Le Souëf & Bullen, 1902, p. 157, f. 7.  
Host: *Menura novae-hollandiae* Latham (AMN).
- DEGERIELLA PARABOLICEPS (Piaget).—*Nirmus paraboliceps* Piaget, 1880, pp. 135-136, Pl. xi, f. 5 (*Psittacus aterrimus*).  
Host: *Probosciger aterrimus* (Gmelin) (APS).
- DEGERIELLA PONTONI Johnston & Harrison. —*Nirmus nitzschi* Ponton (nec Giebel, 1866), 1871, p. 8, Pl. xci, f. 2 (*Ptilorhynchus holosericeus*).—*D. pontoni* Johnston & Harrison, 1913, p. 12.  
Host: *Ptilonorhynchus violaceus* (Vieillot) (APA).
- DEGERIELLA SEMIANNULATA (Piaget).—*Nirmus semiannulata* Piaget, 1883, pp. 156-157, Pl. ix, f. 3 (*Barita leuconota*).  
Host: *Gymnorhina hypoleuca* (Gould) (APA).
- DAHLEMHORNIA ASYMMETRICA (Nitzsch in Giebel).—*Nirmus asymmetricus* Nitzsch in Giebel, 1866, p. 370 (*Dromacus novae-hollandiae*); Giebel, 1874, pp. 151-152, Pl. viii, f. 8, 9; Piaget, 1880, pp. 205-208, Pl. xvii, f. 3.—*N. setosum* Le Souëf & Bullen, 1902, p. 157.—*Dahlehornia asymmetrica* (Nitzsch in Giebel), Keler, 1936, pp. 163-165, Pl. vii.  
Host: *Dromiceius novae-hollandiae* (Latham) (ACA).
- PSITTAONIRMUS AUSTRALIS Harrison, 1915, pp. 403-405, f. 3, Pl. xxvi, f. 7, Pl. xxvii, f. 12-14 (N. S. Wales: *Trichoglossus novae-hollandiae*; W. Australia: *Glossopsittacus porphyrocephalus*).  
Hosts: *Glossopsitta porphyrocephala whitlocki* Mathews (APS), *Trichoglossus moluccanus* (Gmelin) (APS).
- RALLICOLA BISETOSA (Piaget).—*Oncophorus bisetosus* Piaget, 1880, pp. 217-218, Pl. xviii, f. 4 (*Rallina tricolor*). Host: *Tomirdus tricolor* (Gray) (AR).
- RALLICOLA FALLAX (Piaget).—*Oncophorus fallax* Piaget, 1880, pp. 220-221, Pl. xviii, f. 6 (*Porphyrio melanotus*).  
Host: *Porphyrio melanotus* Temminck (AR).



PARRICOLA SULCATA (Piaget).—*Oncophorus sulcatus* Piaget, 1880, pp. 218–219, Pl. xviii, f. 5 (*Parra sinensis*).

Host: *Irediparra gallinacea* (Temminck) (ACH).

PARAGONIOCOTES FASCIATUS (Piaget).—*Goniocotes fasciatus* Piaget, 1880, pp. 236–237, Pl. xix, f. 11 (*Nymphicus novae-hollandiae*).

Host: *Leptolophus hollandicus* (Kerr) (APS).

ORNITHOBIUS FUSCUS Le Souëf, 1902, p. 91 (*Chenopsis atrata*).

Host: *Chenopsis atrata* (Latham) (AAN).

HETEROPROCTUS HILLI Harrison, 1915, pp. 394–398, Pl. xxvi, f. 8, 9, Pl. xxvii, f. 10, 11 (N. Australia: *Anseranas semipalmata*).

Host: *Anseranas semipalmata* (Latham) (AAN).

ESTHIOPTERUM CIRCUMFASCIATUM (Piaget).—*Lipeurus circumfasciatus* Piaget, 1880, pp. 301–302, Pl. xxiv, f. 6 (*Platyercus melanurus*); Taschenberg, 1882, pp. 117–118, Pl. iii, f. 13 (*Colyptorhynchus leachi*); Neumann, 1890, p. 59 (*Calyptorhynchus funereus*).

Hosts: *Calyptorhynchus magnificus* Shaw & Nodder (APS), *Polytelis anthopeplus* (Lear) (APS), *Zanda funerca* (Shaw) (APS).

ESTHIOPTERUM CAPREOLUM (Gervais).—*Philopterus capreolus* Gervais, 1847, in Walckenaer's *Histoire Naturelle des Insectes*, Paris, iii, Aptères, p. 253.—*Lipeurus albus* Le Souëf & Bullen, 1902, p. 157, f. 4 (*Cacatua galerita*).

Host: *Kakatoë galerita* (Latham) (APS).

ESTHIOPTERUM FORFICULOIDES (Neumann).—*Lipeurus forficuloides* Neumann, 1890, p. 65 (*Platyercus multicolor*). Host: *Psephotus varius* Clark (APS).

ESTHIOPTERUM GIGANTEUM Le Souëf & Bullen.—*Lipeurus giganteus* Le Souëf & Bullen, 1902, p. 156, f. 1 (*Antigone australasiana*).

Host: *Mathewsena rubicunda* (Perry) (AMG).

ESTHIOPTERUM GRUIS (Linné).—*Pediculus gruis* Linné, 1758, p. 613.—*Lipeurus ebraeus* Nitzsch in Burmeister, 1838, *Handbuch*, ii, p. 435.—*L. hebraeus* Nitzsch in Giebel, 1874, p. 226, Pl. xvi, f. 5, 6; Taschenberg, 1882, pp. 130–133, Pl. iv, f. 4 (*Grus novae-hollandiae*).

Host: *Mathewsena rubicunda* (Perry) (AMG).

ESTHIOPTERUM IBIDIS Harrison.—*Lipeurus ibis* Le Souëf & Bullen, 1902, pp. 156–157, f. 2 (*Threskiornis strictipennis*).—*Esthiopterum ibidis* Harrison, 1916, p. 136.

Host: *Threskiornis molucca strictipennis* (Gould) (AAR).

ESTHIOPTERUM MENURA Le Souëf & Bullen.—*Lipeurus menura* Le Souëf & Bullen, 1902, p. 157, f. 3 (Victoria: *Menura superba*).

Host: *Menura novae-hollandiae victoriae* Gould (AMN).

ESTHIOPTERUM TRABECULUM (Piaget).—*Nirmus trabeculus* Piaget, 1885, pp. 80–81, Pl. viii, f. 8; Neumann, 1890, p. 63 (*Microglossum atecto*).

Host: *Probosciger aterrimus* (Gmelin) (APS).

ESTHIOPTERUM UNGUICULATUS (Piaget).—*Lipeurus unguiculatus* Piaget, 1890, pp. 247–248, Pl. x, f. 2 (*Herodias novae-hollandiae*).

Host: *Notophox novae-hollandiae* (Latham) (AAR).

COLUMBICOLA COLUMBAE (Linné).—*Pediculus columbae* Linné, 1758, p. 614.—*Lipeurus baculus* Nitzsch, Taschenberg, 1882, p. 124 (*Carpophaga magnifica*, *Leucosarca plicata*).—*L. angustus* Rudow, 1869, p. 34 (*Phaps chalcoptera*).

Hosts: *Leucosarcia melanoleuca* (Latham) (ACO), *Megaloprepia magnifica* (Temminck) (ACO), *Phaps chalcoptera* (Latham) (ACO).

ANATICOLA AUSTRALIS (Rudow).—*Lipeurus australis* Rudow, 1869, pp. 38–39 (*Cereopsis novae-hollandiae*).

Host: *Cereopsis novae-hollandiae* Latham (AAN).

ANATICOLA CRASSICORNIS (Scopoli).—*Pediculus crassicornis* Scopoli, 1763, p. 383.—*Lipeurus squalidus* var. *major* Piaget, 1880, p. 346 (*Anas gibberiformis*).

Host: *Virago gibberifrons* (Müller) (AAN).

ANATICOLA CINEREA (Rudow).—*Lipeurus cinereus* Rudow, 1869, p. 38 (*Nyroca australis*). Host: *Nyroca australis* Eyton (AAN).

ANATICOLA MEGACERA (Johnston & Harrison).—*Lipeurus squalidus* var. *antennata* Piaget, 1880, p. 346 (*Cygnus atratus*).—*L. anatis megaceros* Johnston & Harrison, 1913, p. 6.—*Esthiopterum megaceros* (Johnston & Harrison), Harrison, 1916, p. 138. Host: *Chenopis atrata* (Latham) (AAN).

PECTINOPYGUS (PECTINOPYGUS) GYRICORNIS (Denny).—*Lipeurus gyricornis* Denny, 1842, Monographia Anoplurorum Britanniae, London, p. 167, Pl. xv, f. 1.—*L. gyricornis* Denny, Piaget, 1880, pp. 337-338, Pl. xxvii, f. 8 (*Sula australis*). Host: *Sulita serrator* (Gray) (APE).

PECTINOPYGUS (PHILICHTHYOPHAGA) CONFUSUS (Bagnall & Hall).—*Lipeurus confusus* Bagnall & Hall, 1912, p. 9 (*Phalacrocorax sulcirostris*).

Host: *Mesocarbo sulcirostris* (Brandt) (APE).

PECTINOPYGUS (PHILICHTHYOPHAGA) SETOSUS (Piaget).—*Lipeurus setosus* Piaget, 1880, pp. 335-336, Pl. xxvii, f. 4 (*Phalacrocorax (Graculus) sulcirostris*).

Host: *Mesocarbo sulcirostris* (Brandt) (APE).

#### SIPHUNCULATA.—HAEMATOPINIDAE.

HOPLOPLEURA BIDENTATA (Neumann).—*Haematopinus (Polyplax) bidentatus* Neumann, 1909, p. 515 (S. Australia: *Mus rattus*). See Johnston & Harrison (1913, p. 108: '*Mus rattus*' = *Hydromys chrysogaster*), Cleland (1918, pp. 108-109).—*Hoplopleura bidentata* (Neumann), Ferris, 1921, pp. 129-131, f. 86 (N. S. Wales: *Hydromys chrysogaster*).

Host: *Hydromys chrysogaster* Geoffroy (MR).

#### [SIPHUNCULATA.—ECHINOPHTHIRIDAE.

ANTARCTOPHTHIRUS LOBODONTIS Enderlein.—*A. ogmorhini* Enderlein, Neumann, 1907, p. 13 (Booth Wandel Is.: 'Phoque Crabier').—*A. lobodontis* Enderlein, 1909, p. 510, f. KK-NN (Booth Wandel Is.: *Lobodon carcinophagus* Jacquin & Puch.); Ferris, 1934, pp. 488-489, f. 284.

Host: *Lobodon carcinophaga* Hombron & Jacquinet (MP).

ANTARCTOPHTHIRUS OGMORHINI Enderlein.—*Echinophthirus setosus* Burmeister, Rothschild, 1902, p. 224 (err. det.) (*Ogmorhini leptonyx*).—*A. ogmorhini* Enderlein, 1906, p. 662, f. 1, 2 (*Ogmorhinus leptonyx*); Neumann, 1907, p. 13 (partim—Booth Wandel Is.: 'Phoque crabier'); Enderlein, 1909, p. 509 (Victoria Land: *Ogmorhinus leptonyx* de Blainv.); Ferris, 1934, pp. 486-488, f. 282, 283. Host: *Hydrurga leptonyx* Blainville (MP).]

#### SIPHONAPTERA.—PULICIDAE.

ECHIDNOPIAGA AMBULANS AMBULANS Olliff.—*E. ambulans* Olliff, 1886, p. 172 (N. S. Wales: *Echidna hystrix*); Rainbow, 1905, pp. 101-102, f. 25-26, Pl. xxiii, f. 1, 2; Rothschild, 1909, p. 57, Pl. ix, f. 9 (*Echidna hystrix*).—*E. ambulans ambulans* Olliff, Rothschild, 1936, p. 5, f. 2.

Host: *Tachyglossus aculeatus* Shaw & Nodder (O).

ECHIDNOPIAGA AMBULANS INEPTA Rothschild, 1936, p. 5, f. 3 (W. Australia: *Tachyglossus aculeatus ineptus* Thomas).

Host: *Tachyglossus aculeatus ineptus* Thomas (O).

ECHIDNOPHAGA ARANKA Rothschild, 1936, pp. 3-5, f. 1, 4, 5 (S. W. Australia: *Bettongia lesueur* Quoi & Gaim.).

Host: *Bettongia lesueur* Quoy & Gaimard.

ECHIDNOPHAGA CORNUTA Wagner, 1936, pp. 332-334, f. 1 (S. Australia: *Phascolomys latifrons*). Host: *Lasiorhinus latifrons* Owen (DD).

ECHIDNOPHAGA LIOPUS Jordan & Rothschild, 1906, pp. 56-57, Pl. i, f. 2, Pl. iii, f. 20, 26 (W. Australia: *Echidna aculeata*).

Host: *Tachyglossus aculeatus* Shaw & Nodder (O).

ECHIDNOPHAGA MACRONYCHIA Jordan & Rothschild, 1906, pp. 45-47, Pl. i, f. 7, 8, Pl. ii, f. 15, Pl. iii, f. 22-24 (W. Australia: *Bettongia lesueur*).

Host: *Bettongia lesueur* Quoy & Gaimard (DD).

ECHIDNOPHAGA MYRMECOBII Rothschild.—*Sarcopsylla myrmecobii* Waterhouse, nom. nud., 1887, p. 23 (W. Australia: *Myrmecobius*).—*Echidnophaga ambulans* Jordan & Rothschild (nec. Olliff, err. determ.), 1906, pp. 54-55 (N. S. Wales: *Trichosurus vulpecula*; Victoria: *Trichosurus vulpecula*; W. Australia: *Bettongia lesueur*, *Myrmecobius fasciatus*, *Paragale lagotis*).—*Echidnophaga myrmecobii* Rothschild, 1909, p. 57; Ferguson, 1923, p. 90 (Franklin Is., S. Australia: *Leporillus jonesi* Thomas).

Hosts: *Bettongia lesueur* Quoy & Gaimard (DD), *Leporillus jonesi* Thomas (MR), *Macrotis lagotis* Reid (DP), *Myrmecobius fasciatus* Waterhouse (DP), *Trichosurus vulpecula* Kerr (DD).

ECHIDNOPHAGA PERILIS Jordan, 1925, p. 97, f. 3 (W. Australia: *Myrmecobius fasciatus*); Jordan, 1933, p. 66 (W. Australia: *Paragale lagotis*).

Hosts: *Macrotis lagotis* Reid (DP), *Myrmecobius fasciatus* Waterhouse (DP).

XENOPSYLLA VEXABILIS VEXABILIS Jordan.—*Xenopsylla* sp. (nr. *X. nubicus*), Ferguson, 1923, p. 90 (Franklin Is., S. Australia: *Leporillus jonesi*).—*X. vexabilis* Jordan, 1925, pp. 100-101 (Franklin Is., S. Australia: *Leporillus jonesi*).—*X. vexabilis vexabilis* Jordan, 1936, pp. 184-185.

Host: *Leporillus jonesi* Thomas (MR).

XENOPSYLLA VEXABILIS MESERIS Jordan, 1936, pp. 184-185 (Queensland: *Rattus culmorum*). Host: *Rattus culmorum* Thomas & Dollman (MR).

#### SIPHONAPTERA.—CERATOPHYLLIDAE.

ACANTHOPSYLLA FRANKLINENSIS Rothschild.—♂ *Acanthopsylla woodwardi* Jordan & Rothschild, 1923, pp. 304-305, f. 302, 303 (Franklin Is., S. Australia: *Conilurus albipes*).—*A. franklinensis* Rothschild, 1936, p. 9.

Host: *Conilurus albipes* Lichtenstein (MR).

ACANTHOPSYLLA PAVIDA (Rothschild).—*Pygiopsylla pavida* Rothschild, 1916, pp. 2-4, f. 1-3 (Queensland: *Petaurus breviceps*, *Pseudochirus lemuroides*, *Pseudochirus herbertensis*, *Dactylopsila picata*, *Eudromicia macrura*, *Pseudochirus* sp., *Dendrolagus lumholtzi*).—*A. pavida* (Rothschild), Jordan & Rothschild, 1922, p. 245 (N. S. Wales: *Pseudochirus peregrinus*; Queensland: 'Grey Scrub Rat', *Macropus thetides*).—? *A. pavida* (Rothschild), Ferris, 1924, p. 7 (N. S. Wales: *Phascologale flavipes*).

Hosts: *Dactylopsila picata* Thomas (DD), *Dendrolagus lumholtzi* Collett (DD), *Eudromicia macrura* Mjöberg (DD), *Hemibelideus lemuroides* Collett (DD), *Petaurus breviceps* Waterhouse (DD), *Pseudocheirus herbertensis* Collett (DD), *Pseudocheirus peregrinus* Boddaert (DD), *Thylogale thetis* Lesson (DD).

ACANTHOPSYLLA ROTHSCILDI (Rainbow).—♂ *Stephanocircus dasyuri* Skuse. Rainbow, 1903, pp. 53-55 (N. S. Wales: *Dasyurus maculatus* Kerr).—*Ceratophyllus rothschildi* Rainbow, 1905, pp. 103-107, f. 27-28.—*A. rothschildi*



- (Rainbow), Jordan & Rothschild, 1922, pp. 245-247, f. 235-239. These authors recognize three geographical forms, viz.: *A. rothschildi rothschildi* (Rainbow) (p. 248, f. 235; N. S. Wales: *Dasyurus viverrinus*; Queensland: *Macropus thetides*), *A. rothschildi nereis* Jordan & Rothschild (p. 247, f. 236-238; Clerke Is., Bass Straits; *Potorous tridactylus*) and *A. rothschildi victoriana* Jordan & Rothschild (p. 248, f. 239; Victoria: *Phascologale swainsoni*).—*A. rothschildi rothschildi* (Rainbow), Jordan & Rothschild, 1923, pp. 305-306, f. 304, 305 (N. S. Wales: *Phascologale flavipes*).
- Hosts: *Antechinus flavipes* Waterhouse (DP), *Antechinus swainsonii* Waterhouse (DP), *Dasyurops maculatus* Kerr (DP), *Dasyurus quoll* Zimmermann (DP), *Potorous tridactylus* Kerr (DD), *Thylogale thetis* Lesson (DD).
- ACANTHOPSYLLA SAPIES Jordan & Rothschild, 1922, pp. 242-245, f. 232-234 (Victoria: 'Native Cat').
- ACANTHOPSYLLA WOODWARDI (Rothschild).—*Ceratophyllus woodwardi* Rothschild, 1904, pp. 623-624, Pl. x, f. 41, Pl. xi, f. 42 (W. Australia: host unknown).—*Pygiopsylla woodwardi* (Rothschild), Rothschild, 1906, p. 221.—*A. woodwardi* (Rothschild), Jordan & Rothschild, 1922, p. 242; Rothschild, 1936, pp. 6-9, f. 7, 8 (W. Australia: *Dasyurus geoffroyi* Gould).
- Host: *Dasyurinus geoffroyi* Gould (DP).
- ACEDESTIA CIERA Jordan, 1937, pp. 313-315, f. 99, 100 (S. Australia ('Queensland' error): *Perameles gunnei*; W. Australia: *Isodon obesulus*).
- Hosts: *Isodon obesulus* Shaw & Nodder (DP), *Perameles gunnii* Gray (DP).
- BRADIOPSYLLA ECHIDNAE (Denny).—*Pulex echidnae* Denny, 1843, pp. 315-316, Pl. xvii, f. 6 (Tasmania: *Echidna hystrix*).—*Bradiopsylla echidnae* (Denny), Jordan & Rothschild, 1922, p. 233 (N. S. Wales, Tasmania, Victoria: *Echidna hystrix*, *Echidna setosa*); Ferris, 1924, p. 7 (Tasmania: *Tachyglossus setosa*).
- Hosts: *Tachyglossus aculeatus* Shaw & Nodder (O), *Tachyglossus setosus* Geoffroy (O).
- CHORISTOPSYLLA OCHI (Rothschild).—*Ceratophyllus ochi* Rothschild, 1904, pp. 628-629, Pl. xi, f. 49, Pl. xii, f. 54 (Victoria: 'Opossum').—*Pygiopsylla ochi* (Rothschild), Rothschild, 1916, p. 2 (Queensland: *Trichosurus* sp. (probably *T. vulpecula*)).—*Choristopsylla ochi* (Rothschild), Jordan & Rothschild, 1922, p. 232 (N. S. Wales, Victoria: *Trichosurus vulpecula*); Ferris, 1924, p. 7 (Tasmania: *Trichosurus vulpecula*); Jordan, 1937, p. 289, f. 74 (W. Australia: *Trichosurus vulpecula*). Host: *Trichosurus vulpecula* Kerr (DD).
- CHORISTOPSYLLA THOMASI (Rothschild).—*Ceratophyllus thomasi* Rothschild, 1904, pp. 625-626, Pl. xi, f. 46, 48 (Australia: *Aerobates pygmaea*).—*Choristopsylla thomasi* (Rothschild), Jordan & Rothschild, 1922, p. 232.
- Host: *Aerobates pygmaeus* Shaw (DD).
- CHORISTOPSYLLA TRISTIS (Rothschild).—*Typhlopsylla tristis* Rothschild, 1900, pp. 36-37, Pl. ii, f. 1 (Victoria: *Petaurus australis*).—*Ceratophyllus tristis* (Rothschild), Rothschild, 1904, p. 625, Pl. xi, f. 45, 47.—*Choristopsylla tristis* (Rothschild), Jordan & Rothschild, 1922, p. 233 (Victoria: *Petaurus australis*, *Aerobates pygmaea*).
- Hosts: *Aerobates pygmaeus* Shaw (DD), *Petaurus australis* Shaw & Nodder (DD).
- GLAUERTIA SCINTILLA Rothschild, 1936, pp. 9-13, f. 9-12 (W. Australia: *Dromicia concinna* Gould). Host: *Cercartetus concinnus* Gould (DD).
- LYCOPSYLLA NOVUS Rothschild, 1904, pp. 602-603, Pl. vii, f. 1-4 (N. S. Wales: *Phascalomys mitchelli*); Jordan & Rothschild, 1908, p. 94.
- Host: *Vombatus hirsutus* Perry (DD).

- MACROPSYLLA HERCULES Rothschild, 1905, pp. 486-487, Pl. xiv, f. 9, 10 (Tasmania: *Mus velutinus*, *Mus* sp.); Ferguson, 1923, p. 91 (N. S. Wales: *Rattus assimilis*; S. Australia: *Rattus greyi*); Ferris, 1924, p. 7 (N. S. Wales: *Phascogale flavipes*).
- Hosts: *Antechinus flavipes* Waterhouse (DP), *Rattus assimilis* Gould (MR), *Rattus greyii* Gray (MR), *Rattus velutinus* Thomas (MR).
- PARAPSYLLUS AUSTRALIACUS Rothschild.—*P. longicornis* Jordan & Rothschild (nec Enderlein, 1901, err. determ.), 1908, pp. 85-87, Pl. ii, f. 12, Pl. iv, f. 5, Pl. vii, f. 3 (W. Australia: *Eudyptula minor*).—*P. australiacus* Rothschild, 1909, p. 62 (W. Australia: *Eudyptula minor*); Cleland, 1922, p. 113 (Flinders Is.: *Eudyptula minor*, *Puffinus brevicaudus*).
- Hosts: *Eudyptula minor* (Forster) (AS), *Neonectris tenuirostris brevicaudus* (Gould) (APR).
- PYGIOPSYLLA COLOSSUS Rothschild, 1906, pp. 221-222, f. 1 (Tasmania: 'Tasmanian rat').
- PYGIOPSYLLA CONGRUA Jordan & Rothschild.—♂ (in part), ♀ *Ceratophyllus hilli* Rothschild, 1904, pp. 622-623, Pl. xi, f. 43 (in part), 44 (N. S. Wales: *Dasyurus viverrinus*, *Perameles nasuta*).—♀ *Ceratophyllus hilli* Rothschild, 1905a, p. 61 (Tasmania: *Dasyurus maculatus*).—♂ *Pygiopsylla congrua* Jordan & Rothschild, 1922, pp. 234, 236, f. 226 (N. S. Wales: *Perameles nasuta*; Tasmania: *Perameles obesula*).—♀ *Pygiopsylla hoplia* Jordan & Rothschild, 1923, pp. 236-237, f. 228 (N. S. Wales: *Perameles nasuta*; Tasmania: *Perameles obesula*, *Perameles* sp., *Ornithorhynchus anatinus*, *Dasyurus maculatus*; Victoria: 'Native Rat').—*Pygiopsylla congrua* Jordan & Rothschild, Jordan, 1937, p. 311.
- Hosts: *Dasyurops maculatus* Kerr (DP), *Dasyurus quoll* Zimmermann (DP), *Isoodon obesulus* Shaw & Nodder (DP), *Ornithorhynchus anatinus* Shaw & Nodder (O), *Perameles nasuta* Geoffroy (DP).
- PYGIOPSYLLA GRAVIS Rothschild, 1908, p. 620, Pl. xxx, f. 14 (Victoria: *Mus assimilis*); Jordan & Rothschild, 1922, p. 240, f. 231.
- Host: *Rattus assimilis* Gould (MR).
- PYGIOPSYLLA HILLI (Rothschild).—♂ *Ceratophyllus hilli* Rothschild, 1904, pp. 622-623, Pl. xi, f. 43 (in part) (W. Australia: *Bettongia penicillata*).—*P. hilli* (Rothschild), Jordan & Rothschild, 1922, p. 234, f. 225; Jordan, 1937, pp. 289-290, f. 75, 76 (W. Australia: *Bettongia penicillata*, *Pseudocheirus occidentalis*).
- Host: *Bettongia penicillata* Gray (DD), *Pseudocheirus occidentalis* Thomas (DD).
- PYGIOPSYLLA HOPLIA Jordan & Rothschild.—♂ *Ceratophyllus hilli* Rothschild, 1905a, p. 61 (Tasmania: *Dasyurus maculatus*).—♂ *Pygiopsylla hoplia* Jordan & Rothschild, 1922, pp. 236-237, f. 227 (N. S. Wales: *Potorous tridactylus*, *Perameles nasuta*; Queensland: *Perameles nasuta*; Tasmania: *Perameles obesula*, *Perameles* sp., *Ornithorhynchus anatinus*, *Dasyurus maculatus*; Victoria: *Epimys assimilis*).—♀ *P. congrua* Jordan & Rothschild, 1922, pp. 234, 236, f. 229 (N. S. Wales: *Perameles nasuta*, *Potourus tridactylus*; Queensland: 'Grey Scrub Rat'; Tasmania: *Perameles obesula*).—*P. hoplia* Jordan & Rothschild, Jordan, 1937, p. 290 (Queensland: *Perameles nasuta*); Jordan, 1937, p. 311.
- Hosts: *Dasyurops maculatus* Kerr (DP), *Dasyurus quoll* Zimmermann (DP), *Isoodon obesulus* Shaw & Nodder (DP), *Ornithorhynchus anatinus* Shaw & Nodder (O), *Perameles nasuta* Geoffroy (DP), *Potorous tridactylus* Kerr (DD), *Rattus assimilis* Gould (MR).

- PYGIOPSYLLA RAINBOWI Rothschild, 1908, pp. 619-620, Pl. xxviii, f. 5, Pl. xxx, f. 13 (Victoria: *Mus assimilis*); Jordan & Rothschild, 1922, p. 240 (N. S. Wales: *Perameles nasuta*; Victoria: *Epimys assimilis*, *Phascologale swainsoni*).  
Hosts: *Antechinus swainsonii* Waterhouse (DP), *Perameles nasuta* Geoffroy (DP), *Rattus assimilis* Gould (MR).
- PYGIOPSYLLA SOLIDA Rothschild, 1916, pp. 4-6, f. 4 (Queensland: *Epimys* sp.).
- PYGIOPSYLLA ZETHI (Rothschild).—*Ceratophyllus zethi* Rothschild, 1904, pp. 626-628, Pl. xi, f. 50, Pl. xii, f. 52 (Victoria: *Bettongia cuniculus*).—*Pygiopsylla zethi* (Rothschild), Jordan & Rothschild, 1922, pp. 237-238, f. 230 (N. S. Wales: *Dasyurus viverrinus*, *Perameles nasuta*; Tasmania: *Perameles obesula*).  
Hosts: *Bettongia cuniculus* Ogilby (DD), *Dasyurus quoll* Zimmermann (DP), *Isoodon obesulus* Shaw & Nodder (DP), *Perameles nasuta* Geoffroy (DP).
- STEPHANOCIRCUS CONCINXUS Rothschild, 1916, pp. 6-8, f. 5 (*Epimys* sp.).
- STEPHANOCIRCUS DASYURI Skuse.—♀ *S. dasyuri* Skuse, 1893, pp. 78-79, Pl. xvii (N. S. Wales: *Dasyurus maculatus* Kerr.).—*S. dasyuræ* Skuse, Rothschild, 1903, p. 319 (W. Australia: *Bettongia penicillata*).—*S. dasyuri* Skuse, Rainbow, 1903, pp. 53-55; Rainbow, 1905, pp. 102-103, 107-108; Rothschild, 1905a, p. 61, Pl. i, f. 1, 4 (Tasmania: *Mus velutinus*, *Perameles gunni*, *Dasyurus maculatus*); Jordan & Rothschild, 1911, pp. 86-87, f. 10; Rothschild, 1916, pp. 6, 9 (Queensland: *Perameles* sp., *Dasyurus viverrinus*); Jordan, 1937, p. 290 (Queensland: *Perameles nasuta*).  
Hosts: *Bettongia penicillata* Gray (DD), *Dasyurops maculatus* Kerr (DP), *Dasyurus quoll* Zimmermann (DP), *Perameles gunnii* Gray (DP), *Perameles nasuta* Geoffrey (DP), *Rattus velutinus* Thomas (MR).
- STEPHANOCIRCUS JARVISI Rothschild, 1908, pp. 623-624, Pl. xxix, f. 12, Pl. xxxi, f. 16 (Victoria: *Phascologale swainsoni*).  
Host: *Antechinus swainsonii* Waterhouse (DP).
- STEPHANOCIRCUS PECTINIPES Rothschild, 1915, pp. 25-26, Pl. ii (Victoria: *Epimys assimilis*). Host: *Rattus assimilis* Gould (MR).
- STEPHANOCIRCUS SIMSONI Rothschild, 1905a, pp. 61-62, Pl. i, f. 2, 3 (Tasmania: *Mus velutinus*, *Dasyurus maculatus*); Jordan & Rothschild, 1911, p. 87 (Victoria: *Mus assimilis*); Ferguson, 1923, p. 91 (host of type given in error '*Dasyurus viverrinus*').  
Hosts: *Dasyurops maculatus* Kerr (DP), *Rattus assimilis* Gould (MR), *Rattus velutinus* Thomas (MR).
- STEPHANOPSYLLA THOMASI (Rothschild).—*Stephanocircus thomasi* Rothschild, 1903, pp. 318-319, Pl. ix, f. 4, 5 (Barrow Is., N.W. Australia: *Mus ferculinus* Thos.).—*Stephanopsylla thomasi* (Rothschild), 1911, p. 122.  
Host: *Thetomys ferculinus* Thomas (MR).
- STIVALIUS MOLESTUS Jordan, 1936, p. 185, f. 1, 2 (Queensland: *Rattus culmorum*); Jordan, 1937, pp. 311-312, f. 98 (Queensland: *Rattus culmorum*).  
Host: *Rattus culmorum* Thomas & Dollman.
- STIVALIUS RECTUS Jordan & Rothschild, 1922, pp. 257-258, f. 251, 252 (Queensland: 'Grey Scrub Rat').
- UROPSYLLA TASMANICUS Rothschild, 1905, pp. 488-490, Pl. xiv, f. 11, 12 (Tasmania: *Dasyurus viverrinus*). Host: *Dasyurus quoll* Zimmermann (DP).
- SIPHONAPTERA.—ISCHNOPSYLLIDAE.
- ISCHNOPSYLLUS BATHYLUS Rothschild, 1936, pp. 14-15, f. 13, 14, 17 (W. Australia: *Nyctinomus australis* Gray). Host: *Austronomus australis* Gray (MC).



- ISCHNOPSYLLUS CAMINAE (Rothschild).—*Ceratophyllus caminae* Rothschild, 1903, p. 323, Pl. x, f. 21, 22 (W. Australia: 'bat').—*Ischnopsyllus caminae* (Rothschild), Rothschild, 1936, p. 13, f. 15, 18 (W. Australia: *Chalinolobus morio* Gray). Host: *Chalinolobus morio* Gray (MC).
- ISCHNOPSYLLUS EARINUS Rothschild, 1936, pp. 15–16, f. 16, 19 (W. Australia: *Eptesicus pumilus* Gray). Host: *Vespadelus pumilus* Gray.
- ISCHNOPSYLLUS REDUCTUS (Rothschild).—*Ceratophyllus reductus* Rothschild, 1903, pp. 323–324 (Victoria: *Vespertilio macropus*). Host: *Myotis macropus* Gould (MC).

## COLEOPTERA.—STAPHYLINIDAE.

- MYOTYPHUS JANSONI (Matthews).—*Amblyopinus Jansoni* Matthews, 1878, Cist. ent., ii, pp. 278–279, Pl. vi, f. 1–7 ('Tasmanian sub pelle Muris Ratti detectus').—*Myotyphlus jansoni* (Matthews), Fauvel, 1883, Rev. d'Ent., ii, pp. 37–40.—*Cryptommatus jansoni* (Matthews), Matthews, 1884, Cist. ent., iii, pp. 91–92, Pl. v, f. 10.

Add the following:

- ANTARCTOPHTHIRUS OGMORHINI Enderlein, Harrison, 1937, p. 41 (*Ogmorhinus leptonyx* = *Hydrurga leptonyx* Blainville (MP)).
- DOCOPHOROIDES HARRISONI Waterston, Harrison, 1937, p. 11 (Tasmania: *Diomedea melanophrys* = *Thalassarche melanophris impavida* Mathews (APR)). Note: Many of the bird hosts listed in this report visit the Australian coast; however, as stated in the introduction, such hosts are not listed here unless the record is for an Australian locality definitely.
- MYOPHTHIRIA sp., Austen, 1926, p. 360 (Queensland). (Hippoboscidae.)
- NYCTERIBOSCA MINUTA Jobling, 1934, pp. 98–99, f. 1 (Solomon Is.: *Hipposideros cervinus* Gould); Jobling, 1936, p. 178 (N. Queensland: *Rhinolophus megaphyllus* Gray = *Rhinophyllotis megaphyllus* Gray). (Nycteriidae.)

## Section B.

The letters between brackets refer to parasite groups: Diptera, D; Nycteriidae, DN; Streblidae, DS; Mallophaga, M; Siphunculata, S; Siphonaptera, A.

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| <p>AVES.</p> <p>Casuariiformes.</p> <p><i>Dromiceius novaehollandiae</i> (Latham).</p> <p><i>Daklehornia asymmetrica</i> (Nitzsch in Giebel). (M)</p> <p>Sphenisciformes.</p> <p><i>Eudyptula minor</i> (Forster).</p> <p><i>Austrogoniodes waterstoni</i> (Cumplings). (M).</p> <p><i>Parapsyllus australiacus</i> (Rothschild). (A)</p> <p>Galliformes.</p> <p><i>Alectura lathamii</i> Gray.</p> <p><i>Goniocotes fissus</i> (Rudow). (M)</p> <p><i>G. macrocephalus</i> Taschenberg. (M)</p> <p><i>Lipcurus crassus</i> Rudow. (M)</p> <p><i>L. ischnocephalus</i> Taschenberg. (M)</p> <p><i>Ypsilophorus ypsilophorus australis</i> (Latham).</p> <p><i>Goniodes elongatus</i> Piaget. (M)</p> <p><i>G. retractus</i> Le Souéf. (M)</p> | <p><i>Excalfactoria chinensis australis</i> Gould.</p> <p><i>Goniodes elongatus</i> Piaget. (M)</p> <p><i>Lipeurus acuminatus</i> Piaget. (M)</p> <p><i>Menopon pallipes</i> Piaget. (M)</p> <p>Columbiformes.</p> <p><i>Megaloprepia magnifica</i> (Temminck).</p> <p><i>Columbicola columbae</i> (Linné). (M)</p> <p><i>Macropygia phasianella</i> (Temminck).</p> <p><i>Colpocephalum albidum</i> Giebel. (M)</p> <p><i>Columbicola columbae</i> (Linné). (M)</p> <p><i>Phaps chalcoptera</i> (Latham).</p> <p><i>Colpocephalum albidum</i> Giebel. (M)</p> <p><i>Columbicola columbae</i> (Linné). (M)</p> <p><i>Goniocotes flavus</i> Rudow. (M)</p> <p><i>Leucosarcia melanoleuca</i> (Latham).</p> <p><i>Columbicola columbae</i> (Linné). (M)</p> <p>Ralliformes.</p> <p><i>Tomiridus tricolor</i> (Gray).</p> <p><i>Rallicola bisctosa</i> (Piaget). (M)</p> <p><i>Porphyrio melanotus</i> Temminck.</p> <p><i>Rallicola fallax</i> (Piaget). (M)</p> |
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- Microtribonyx ventralis* Gould.  
*Philoapterus flavopunctatus* (Rudow). (M)
- Procellariiformes.  
*Neonectris tenuirostris brevicaudus* (Gould).  
*Parapsyllus australiacus* Rothschild. (A)  
*Daption capensis australis* Mathews.  
*Ancistrona vagelli* (Fabricius). (M)
- Lariformes.  
*Thalasseus bergii polioecrus* (Gould).  
*Actornithophilus crassipes* (Piaget). (M)
- Charadriiformes.  
*Irediparra gallinacea* (Temminck).  
*Parricola sulcata* (Piaget). (M)
- Megalornithiformes.  
*Mathewsena rubicunda* (Perry).  
*Esthiopterum giganteum* Le Souëf. (M)  
*E. gruis* (Linné). (M)  
*Philoapterus novae-hollandiae* (Giebel). (M)
- Ardeiformes.  
*Threskiornis molucca strictipennis* (Gould).  
*Esthiopterum ibidis* Harrison. (M)  
*Platibis flavipes* (Gould).  
*Ibidoecus flavus* Cummings. (M)  
*Xenorhynchus asiaticus australis* (Shaw).  
*Philoapterus horridus* (Giebel). (M)  
*Notophoxa novae-hollandiae* (Latham).  
*Esthiopterum unguiculatus* (Piaget). (M)  
*Philoapterus longipes* (Rudow). (M)
- Anatiformes.  
*Chenopsis atrata* (Latham).  
*Anaticola megacera* (Johnston & Harrison). (M)  
*Colpocephalum castaneum* Piaget. (M)  
*Ornithobius fuscus* Le Souëf. (M)  
*Trinoton nigrum* Le Souëf. (M)  
*Anseranas semipalmata* (Latham).  
*Heteroproctus hilli* Harrison. (M)  
*Cercopsis novae-hollandiae* Latham.  
*Anaticola australis* (Rudow). (M)  
*Virago gibberifrons* (Müller).  
*Anaticola crassicornis* (Scopoli). (M)  
*Nyroca australis* Eyton.  
*Anaticola cinereus* (Rudow). (M)
- Pelecaniformes.  
*Mesocarbo ater sulcirostris* (Brandt).  
*Menopon subrotundum* Piaget. (M)  
*Pectinopygus (Philichthyophaga) confusus*  
 (Bagnall & Hall). (M)  
*P. (P.) setosus* (Piaget). (M)  
*Sulita scrutator* (Gray).  
*Menopon albescens* Piaget. (M)  
*Pectinopygus (Pectinopygus) gyricornis*  
 (Denny). (M)  
*Philoapterus breviantennatus* (Piaget).  
 (M)  
*Catoptropelicanus conspicillatus* (Temminck).  
*Tectroptthalmus australis* Bedford. (M)
- Falconiformes.  
*Cuncuma leucogaster* (Gmelin).  
*Colpocephalum flavescens* Nitzsch in Lyonet.  
 (M)
- Psittaciformes.  
*Trichoglossus moluccanus* (Gmelin).  
*Eomenopon denticulatum* Harrison. (M)  
*Psitteteutes versicolor* (Lear).  
*Eomenopon denticulatum* Harrison. (M)  
*Glossopsitta porphyrocephala whitlocki*  
 Mathews.  
*Psittaconirminus australis* Harrison. (M)  
*Probosciger aterrimus* (Gmelin).  
*Colpocephalum temporale* Piaget. (M)  
*Degeeriella paraboliceps* (Piaget). (M)  
*Esthiopterum trabeculum* (Piaget). (M)  
*Goniocotes latus* var. *major* Neumann.  
 (M)  
*Menopon commissum* Neumann. (M)  
*Philoapterus forficuloides* (Piaget). (M)  
*Calyptorhynchus magnificus* Shaw &  
 Nodder.  
*Esthiopterum circumfasciatum* (Piaget).  
 (M)  
*Zanda juværa* (Shaw).  
*Menopon bifurcatum* Piaget. (M)  
*Kakatoë galerita* (Latham).  
*Esthiopterum capreolum* (Gervais). (M)  
*Eolophus roseicapillus* (Vieillot).  
*Philoapterus eos* (Rudow). (M)  
*Degeeriella eos* (Giebel). (M)  
*Leptolophus hollandicus* (Kerr).  
*Paragoniocotes fasciatus* (Piaget). (M)  
*Polytelis swainsonii* (Desmarest).  
*Colpocephalum trimaculatum* Piaget. (M)  
*Philoapterus angustoclypeatus* Piaget. (M)  
*P. forficula* (Piaget). (M)  
*Polytelis anthopeplus* (Lear).  
*Esthiopterum circumfasciatum* (Piaget).  
 (M)  
*Alisterus scapularis* (Lichtenstein).  
*Philoapterus forficula* (Piaget). (M)  
*Platyercus elegans elegans* (Gmelin).  
*Philoapterus forficula* (Piaget). (M)  
*Platyercus adscitus palliceps* Lear.  
*Philoapterus forficula* (Piaget). (M)  
*Colpocephalum trimaculatum* Piaget. (M)  
*Platyercus eximius* (Shaw).  
*Menopon pteropsittacus* Harrison. (M)  
*Barnardius zonarius* (Shaw).  
*Philoapterus forficula* (Piaget). (M)  
*Northiella haematogaster* (Gmelin).  
*Myrsidea parumpilosa* (Piaget). (M)  
*Pezoporus wallicus* (Kerr).  
*Degeeriella divergens* (Neumann). (M)  
*Psephotus varius* Clark.  
*Esthiopterum forficuloides* (Neumann). (M)
- Alcediniformes.  
*Dacelo novae-guinae* (Hermann).  
*Degeeriella bracteata* (Nitzsch in Giebel).  
 (M)  
*Philoapterus delphar* (Nitzsch in Giebel).  
 (M)

## Cuculiformes.

- Cacomantis prionurus* (Lichtenstein).  
*Philoaterus laticlypeatus* (Piaget). (M)  
*Scythrops novachollandiae* (Latham).  
*Degeeriella lipeuriformis* (Rudow). (M)  
*Philoaterus acutus* (Rudow). (M)  
*P. obcordatus* (Piaget). (M)

## Menuriformes.

- Menura novachollandiae* Latham.  
*Degeeriella menuraelyrae* (Coinde). (M)  
*Philoaterus paraboliceps* (Piaget). (M)  
*Menura novachollandiae victoriae* Gould.  
*Esthiopterum menura* Le Souëf & Bullen.  
 (M)  
*Menopon menura* Le Souëf & Bullen. (M)

## Passeriformes.

- Gymnorhina tibicen* (Latham).  
*Degeeriella bimaculata* (Piaget). (M)  
*Gymnorhina hypoleuca* (Gould).  
*Degeeriella semiannulata* (Piaget). (M)  
*Strepera graculina* (J. White).  
*Colpocephalum vinculum* Le Souëf & Bullen. (M)  
*Gouldaeornis gouldiae* (Gould).  
*Machaerilaemus latifrons* Harrison. (M)  
*Ptiloris victoriae* Gould.  
*Acolpocephalum brevipes* Ewing. (M)  
*Ptilonorhynchus violaceus* (Vieillot).  
*Degeeriella pontoni* Johnston & Harrison.  
 (M)  
*Menopon ptilonorhynchi* Ponton. (M)  
*Philoaterus grandiceps* (Giebel). (M)  
*Sericulus chrysocephalus* (Lewin).  
*Degeeriella hectica* (Nitzsch in Giebel).  
 (M)

## MAMMALIA.

## MONOTREMATA.

- Ornithorhynchus anatinus* Shaw & Nodder.  
*Pygiopsylla congrua* Jordan & Rothschild.  
 (A)  
*P. hoplia* Jordan & Rothschild. (A)  
*Tachyglossus aculeatus* Shaw & Nodder.  
*Bradiopsylla echidnae* (Denny). (A)  
*Echidnophaga ambulans ambulans* Olliff.  
 (A)  
*E. liopus* Jordan & Rothschild. (A)  
*Tachyglossus aculeatus ineptus* Thomas.  
*Echidnophaga ambulans inepta* Rothschild.  
 (A)  
*Tachyglossus setosus* Geoffroy.  
*Bradiopsylla echidnae* (Denny). (A)

## MARSUPIALIA.

Polyprotodontia.  
Dasyuridae.

- Antechinus flavipes* Waterhouse.  
*Acanthopsylla rothschildi rothschildi*  
 (Rainbow). (A)  
*Macropsylla hercules* Rothschild. (A)  
*Phacogalia brevispinosus* (Harrison & Johnston). (M)

*Antechinus swainsonii* Waterhouse.

- Acanthopsylla rothschildi victoriana*  
 Jordan & Rothschild. (A)  
*Pygiopsylla rainbowi* Rothschild. (A)  
*Stephanocircus jarvisi* Rothschild. (A)  
*Dasyurus quoll* Zimmermann.  
*Acanthopsylla rothschildi rothschildi*  
 (Rainbow). (A)  
*Pygiopsylla congrua* Jordan & Rothschild.  
 (A)  
*P. hoplia* Jordan & Rothschild. (A)  
*P. zethi* (Rothschild). (A)  
*Stephanocircus dasyuri* Skuse. (A)  
*Uropsylla tasmanicus* Rothschild. (A)  
*Dasyurus geoffroyi* Gould.  
*Acanthopsylla woodwardi* Rothschild. (A)  
*Dasyurops maculatus* Kerr.  
*Acanthopsylla rothschildi rothschildi*  
 (Rainbow). (A)  
*Boopia uncinata* Harrison & Johnston.  
 (M)  
*Pygiopsylla congrua* Jordan & Rothschild.  
 (A)  
*P. hoplia* Jordan & Rothschild. (A)  
*Stephanocircus dasyuri* Skuse. (A)  
*S. simsoni* Rothschild. (A)

## Myrmecobiidae.

- Myrmecobius fasciatus* Waterhouse.  
*Echidnophaga myrmecobii* Rothschild.  
 (A)  
*E. perilis* Jordan. (A)

## Peramelidae.

- Isodon obesulus* Shaw & Nodder.  
*Acedestia chera* Jordan. (A)  
*Pygiopsylla congrua* Jordan & Rothschild.  
 (A)  
*P. hoplia* Jordan & Rothschild. (A)  
*P. zethi* Jordan & Rothschild. (A)  
*Perameles nasuta* Geoffroy.  
*Boopia phaneroerata* Harrison & Johnston.  
 (M)  
*Pygiopsylla congrua* Jordan & Rothschild.  
 (A)  
*P. hoplia* Jordan & Rothschild. (A)  
*P. rainbowi* Rothschild. (A)  
*P. zethi* (Rothschild). (A)  
*Stephanocircus dasyuri* Skuse. (A)  
*Perameles gunnii* Gray.  
*Acedestia chera* Jordan. (A)  
*Stephanocircus dasyuri* Skuse. (A)  
*Macrotis lagotis* Reid.  
*Echidnophaga myrmecobii* Rothschild.  
 (A)  
*E. perilis* Jordan. (A)

## Diprotodontia.

## Phalangeridae.

- Acrobates pygmaeus* Shaw.  
*Choristopsylla thomasi* (Rothschild).  
 (A)  
*C. tristis* (Rothschild). (A)  
*Cercartetus concinnus* Gould.  
*Glaucertia scintilla* Rothschild. (A)



- Endromicia macrura* Mjöberg.  
*Acanthopsylla parida* (Rothschild). (A)  
*Petaurus australis* Shaw and Nodder.  
*Choristopsylla tristis* (Rothschild). (A)  
*Petaurus breviceps* Waterhouse.  
*Acanthopsylla parida* (Rothschild). (A)  
*Dactylopsila picata* Thomas.  
*Acanthopsylla parida* (Rothschild). (A)  
*Pseudocheirus peregrinus* Boddaert.  
*Acanthopsylla parida* (Rothschild). (A)  
*Pseudocheirus occidentalis* Thomas.  
*Pygiopsylla hilli* (Rothschild). (A)  
*Pseudocheirus herbertensis* Collett.  
*Acanthopsylla parida* (Rothschild). (A)  
*Hemibelideus lemuroides* Collett.  
*Acanthopsylla parida* (Rothschild). (A)  
*Trichosurus vulpecula* Kerr.  
*Choristopsylla ochi* (Rothschild). (A)  
*Echidnophaga myrmecobii* Rothschild.  
 (A)
- Vombatidae.  
*Vombatus ursinus* Shaw.  
*Boopia tarsata* Piaget. (M)  
*Vombatus hirsutus* Perry.  
*Boopia tarsata* Piaget. (M)  
*Lycopsylla novus* Rothschild. (A)  
*Lasiorchinus latifrons* Owen.  
*Echidnophaga cornuta* Wagner. (A)
- Macropodidae.  
*Bettongia penicillata* Gray.  
*Pygiopsylla hilli* (Rothschild). (A)  
*Stephanocircus dasyuri* Skuse. (A)  
*Bettongia lesueur* Quoy & Gaimard.  
*Echidnophaga aranka* Rothschild. (A)  
*E. macronychia* Jordan & Rothschild. (A)  
*E. myrmecobii* Rothschild. (A)  
*Bettongia cuniculus* Ogilby.  
*Pygiopsylla zethi* (Rothschild). (A)  
*Aepyprymnus rufescens* Gray.  
*Boopia bettongia* Le Souëf. (M)  
*Paraheterodoxus insignis* Harrison & Johnston. (M)  
*Potorous tridactylus* Kerr.  
*Acanthopsylla rothschildi neyrcis* Jordan & Rothschild. (A)  
*Pygiopsylla hoplia* Jordan & Rothschild.  
 (A)  
*Dendrolagus lumholtzi* Collett.  
*Acanthopsylla parida* (Rothschild). (A)  
*Dendrolagus pygidialis* Mjöberg. (M)  
*Thylogale coxeni* Gray.  
*Macropophila forcipata* Mjöberg. (M)  
*Thylogale stigmatica* Gould.  
*Heterodoxus longitarsus* (Piaget). (M)  
*Thylogale thetis* Lesson.  
*Acanthopsylla parida* (Rothschild). (A)  
*A. rothschildi rothschildi* (Rainbow). (A)  
*Heterodoxus longitarsus* (Piaget). (M)  
*Wallabia bicolor* Desmarest.  
*Boopia notafusca* Le Souëf. (M)  
*B. spinosa* Harrison & Johnston. (M)  
*Heterodoxus longitarsus* (Piaget). (M)  
*Latumcephalum lesouëfi* Harrison & Johnston. (M)  
*Wallabia rufogrisea* Desmarest.  
*Heterodoxus longitarsus* (Piaget). (M)  
*Wallabia dorsalis* Gray.  
*Boopia minuta* Le Souëf. (M)  
*Heterodoxus longitarsus* (Piaget). (M)  
*Latumcephalum macropus* Le Souëf. (M)  
*Osphranter robustus* Gould.  
*Heterodoxus longitarsus* (Piaget). (M)  
*Megaleia rufa* Desmarest.  
*Boopia grandis* Piaget. (M)  
*Heterodoxus longitarsus* (Piaget). (M)  
*Macropus major* Shaw.  
*Boopia notafusca* Le Souëf. (M)  
*Heterodoxus longitarsus* (Piaget). (M)
- Placentalia.  
 Rodentia.  
*Hydromys chrysogaster* Geoffroy.  
*Hoplopleura bidentata* (Neumann). (S)  
*Rattus assimilis* Gould.  
*Macropsylla hercules* Rothschild. (A)  
*Pygiopsylla gravis* Rothschild. (A)  
*P. hoplia* Jordan & Rothschild. (A)  
*P. rainbowi* Rothschild. (A)  
*Stephanocircus pectinipes* Rothschild.  
 (A)  
*S. simsoni* Rothschild. (A)  
*Rattus greyii* Gray.  
*Macropsylla hercules* Rothschild. (A)  
*Rattus velutinus* Thomas.  
*Macropsylla hercules* Rothschild. (A)  
*Stephanocircus dasyuri* Skuse. (A)  
*S. simsoni* Rothschild. (A)  
*Rattus eulmorum* Thomas & Dollman.  
*Stivalius molestus* Jordan. (A)  
*Xenopsylla vexabilis meseris* Jordan. (A)  
*Thetomys ferculinus* Thomas.  
*Stephanopsylla thomasi* (Rothschild).  
 (A)  
*Leporillus jonesi* Thomas.  
*Echidnophaga myrmecobii* Rothschild. (A)  
*Xenopsylla vexabilis* Jordan. (A)
- Pinnipedia.  
*Lobodon careinophaga* Hombron & Jacquinot.  
*Antarctophthirus lobodontis* Enderlein.  
 (S)  
*Hydrurga leptonyx* Blainville.  
*Antarctophthirus ogmorhini* Enderlein. (S)
- Carnivora.  
*Canis dingo* Meyer.  
*Trichodectes canis* (De Geer). (M)  
 Chiroptera.—Megachiroptera.  
*Pteropus poliocephalus* Temminck.  
*Cyclopodia albertsii* Rondani. (DN)  
*Pteropus gouldii* Peters.  
*Cyclopodia albertsii* Rondani. (DN)  
*Pteropus conspicillatus* Gould.  
*Cyclopodia albertsii* Rondani. (DN)  
 Chiroptera.—Microchiroptera.  
 Vespertilionidae.  
*Nyctophilus timoriensis gouldi* Tomes.  
*Nycteribia (Nycteribia) brevicauda* Musgrave. (DN)

- Vespadelus pumilus* Gray.  
*Ischnopsyllus carinus* Rothschild. (A)  
*Nycteribia* (*Nycteribia*) *falcozi* Musgrave. (DN)  
*Chalinolobus gouldii* Gray.  
*Nycteribia* (*Nycteribia*) *falcozi* Musgrave. (DN)  
*N.* (*N.*) *troughtoni* Musgrave. (DN)  
*Chalinolobus morio* Gray.  
*Ischnopsyllus caminae* (Rothschild). (A)  
*Nycteribia* (*Nycteribia*) *burrelli* Musgrave. (DN)  
*N.* (*N.*) *halei* Musgrave. (DN)  
*Scotcinus rüppellii* Peters.  
*Nycteribia* (*Nycteribia*) *longispinosa* Musgrave. (DN)  
*N.* (*N.*) *multispinosa* Musgrave. (DN)
- Myotis macropus* Gould.  
*Ischnopsyllus reductus* (Rothschild). (A)  
*Miniopterus blepotis* Temminck.  
*Ascodipteron australiansi* Muir. (DS)  
*Nycteribia* (*Listropoda*) *parilis* Walker. (DN)  
*N.* (*L.*) *sarasini* Falcoz. (DN)  
*Nycteribosca amboinensis* Rondani. (DS)  
*Miniopterus australis* Tomes.  
*Nycteribia* (*Listropoda*) *parilis* Walker. (DN)  
*N.* (*L.*) *sarasini* Falcoz. (DN)
- Molossidae.  
*Austronomus australis* Gray.  
*Ischnopsyllus bathylus* Rothschild. (A)

#### Addenda.

We are indebted to Professor Harvey Sutton, School of Public Health and Tropical Medicine, University of Sydney, for permission to publish the following records:

- Isoodon torosus* Ramsay. (Kuranda, Queensland).  
*Boopia phanerocephala* Harrison & Johnston. (M.)  
*Pygiopsylla congrua* Jordan & Rothschild. (A.)  
*P. hoplia* Jordan & Rothschild. (A)  
*Rattus culmorum* Thomas & Dollman. (Ingham, Queensland.)  
*Pygiopsylla hoplia* Jordan & Rothschild. (A.)  
*Polyplax spinulosa* (Burmeister.) (S.)

We would draw attention to the following:

*Echidnophaga myrmecobii* Rothschild has also been recorded from the snake, *Diemenia superciliosa*, by Jordan & Rothschild, 1906, p. 55.

'*Pygiopsylla hilli* (Rothschild)': Jordan & Rothschild, 1922, Ectoparasites, pp. 234-237, when discussing '*Pygiopsylla hilli* (Rothschild), 1904', make no reference to the record of '*Pygiopsylla hilli* (Rothschild), Rothschild, 1916, p. 6', from *Perameles macrura* (= *Isoodon torosus* Ramsay), Queensland.

The record of '*Nycteribia elongata* Rudow', 1871, *Z. Ges. Naturw.*, xxxvii, pp. 122-123, from '*Nyctophilus Geoffroyi*' has yet to be investigated: see Speiser, 1902a, pp. 160-161.

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